

What is claimed:

1. A PCI-Express slot for coupling devices to a host system, comprising:

5 a PCI-Express connector that can couple at least two devices using at least two independent PCI-Express lanes.

2. The PCI-Express slot of Claim 1, where four PCI-Express lanes are used to couple at least two devices.

10 3. The PCI-Express slot of Claim 1, where eight PCI-Express lanes are used to couple at least two devices.

4. The PCI-Express slot of Claim 1, where twelve PCI-Express lanes are used to couple at least two devices.

15 5. The PCI-Express slot of Claim 1, where sixteen PCI-Express lanes are used to couple at least two devices.

20 6. The PCI-Express slot of Claim 1, where thirty PCI-Express lanes are used to couple at least two devices.

7. The PCI-Express slot of Claim 1, where X2, X4, X8, X12, X12, X16 or X32 PCI-Express lane configurations are used to couple at least two devices.

8. A system for coupling plural adapters to a host system, comprising:

5 a motherboard with a PCI-Express slot having a PCI-Express connector that can couple at least two devices using at least two independent PCI-Express lanes.

9. The system of Claim 8, where four PCI-Express lanes are used to couple at least two devices.

10 10. The system of Claim 8, where eight PCI-Express lanes are used to couple at least two devices.

11. The system of Claim 8, where twelve PCI-Express lanes are used to couple at least two devices.

15 12. The system of Claim 8, where sixteen PCI-Express lanes are used to couple at least two devices.

20 13. The system of Claim 8, where thirty PCI-Express lanes are used to couple at least two devices.

14. The system of Claim 8, where X2, X4, X8, X12, X12, X16 or X32 PCI-Express lane configurations are used to couple at least two devices.

15. A PCI-Express connector in a PCI-Express slot for coupling devices to a host system, comprising:

a connector that can couple at least two devices using at least two independent PCI-Express lanes.

5        16. The PCI-Express connector of Claim 15, where four PCI-Express lanes are used to couple at least two devices.

10        17. The PCI-Express connector of Claim 15, where eight PCI-Express lanes are used to couple at least two devices.

18. The PCI-Express connector of Claim 15, where twelve PCI-Express lanes are used to couple at least two devices.

15        19. The PCI-Express connector of Claim 15, where sixteen PCI-Express lanes are used to couple at least two devices.

20. The PCI-Express connector of Claim 15, where thirty PCI-Express lanes are used to couple at least two devices.

20        21. The PCI-Express connector of Claim 15, where X2, X4, X8, X12, X12, X16 or X32 PCI-Express lane configurations are used to couple at least two devices.